

PRODUCT-DETAILS

AE75-30-11 110V DC

AE75-30-11 110V DC Contactor



General Information	
Extended Product Type	AE75-30-11 110V DC
Product ID	1SBL419001R8611
EAN	3471522109866
Catalog Description	AE75-30-11 110V DC Contactor
Long Description	AE75 contactors are mainly used for controlling 3-phase motors and generally for controlling power circuits up to 690 V AC / 1000 V AC or 220 V DC. The contactors can also be used for many other applications such as isolation, capacitor switching, lighting. The AE series 1-stack 3-pole contactors are of the block type design Main poles and auxiliary contact blocks: 3 main poles and 2 built-in auxiliary contacts, front-mounted add-on auxiliary contact blocks - Control circuit: DC operated with standard double-winding DC coils (with add-on factory-mounted lagging contact for insertion of the "holding" winding) - Accessories: a wide range of accessories is available.

1 piece
85364900

•	
Data Sheet, Technical	1SBC100122C0202_Ch02
Information	
Instructions and	FPTC407700P0003
Manuals	

AE75-30-11 110V DC 2

Product Net Height	Dimensions	
Product Net Height	Product Net Width	94 mm
Technical	Product Net Depth / Length	108 mm
Technical Number of Main Contacts NO Number of Auxillary Contacts NO Number of Auxillary Contacts NO Number of Auxillary Contacts NO Rated Operational Voltage Rated Frequency (f) Conventional Free-air acc. to IEC 60947-8-1, Open Contactors q = 40°C125. Rated Operational Current Ac-1 (le) (690 v) 55°C10. (690 v) 55°	Product Net Height	110 mm
Number of Main Contacts NO Number of Main Contacts NC Number of Auxiliary Contacts NC Number of Auxiliary Contacts NO Number of Cont	Product Net Weight	1.24 k <u>c</u>
Contacts NO Number of Main Contacts NO Number of Auxiliary Contacts NO Number of Auxiliary Contacts NO Number of Auxiliary Contacts NC Rated Operational Voitage Rated Frequency (f) Conventional Free-air Acc. to IEC 60947-4-1, Open Contacts on 9 4 01°C128*. Rated Operational Current AC-1 (ie) (690 V) 70 °Cs (690 V) 75 °Cs (750 V) 75 °C		
Contacts NC Number of Auxiliary Contacts NO Number of Auxiliary Contacts NO Number of Auxiliary Contacts NC Rated Operational Current AC-3 (le) Rated Operational Power Rated Operational Rated Operatio	Number of Main Contacts NO	3
Contacts NO Number of Auxiliary Contacts NC Rated Operational Voltage Rated Frequency (f) Supply Circuit 50 / 60 H Conventional Free-air Acc. to IEC 60947-4-1, Open Contactors q = 40 °C 125. Rated Operational Current AC-1 (i.e) (690 V) 40 °C 12 (690 V) 55 °C 72. Current AC-3 (i.e) (690 V) 40 °C 12 (690 V) 55 °C 72. Current AC-3 (i.e) (690 V) 55 °C 72. (500 V) 55 °C 72.	Number of Main Contacts NC	C
Rated Operational	Number of Auxiliary Contacts NO	1
Notage	Number of Auxiliary Contacts NC	•
Conventional Free-air acc. to IEC 60947-4-1, Open Contactors q = 40 °C 125 Thermal Current (lin) acc. to IEC 60947-5-1, q = 40 °C 16 Rated Operational (690 y) 40 °C 12 (690 y) 55 °C 10 (690 y) 70 °C 8 Rated Operational (415 y) 55 °C 72. (690 y) 55 °C 10 (690 y) 70 °C 8 Rated Operational (415 y) 55 °C 72. (500 y) 55 °C 65. (690 y) 40 y) 55 °C 65. (690 y) 40 y) 45 °C 65. (690	Rated Operational Voltage	Main Circuit 1000 V
Thermal Current (Ith) acc. to IEC 60947-5-1, q = 40 °C 16. Rated Operational (690 V) 40 °C 12. Current AC-1 (Ie) (690 V) 55 °C 10. (690 V) 70 °C 8. Rated Operational (415 V) 55 °C 70. (590 V) 75 °C 26. (590 V) 55 °C 63. (590 V) 55 °C 64. (1000 V) 55 °C 70. (220 / 230 / 240 V) 55 °C 70. (220 / 230 / 240 V) 25 °C 70. (220 / 230 V) 25 °C 70. (Rated Frequency (f)	Supply Circuit 50 / 60 Hz
Current AC-1 (le) (690 V) 55 °C 10 (690 V) 70 °C 8 Rated Operational (415 V) 55 °C 70 (500 V) 55 °C 65 (500 V) 55 °C 70 (500 V) 50 V (500 V) 55 °C 70 (500 V) 50 V (500 V) 55 °C 70 (500 V) 50 V (500 V	Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 125 A acc. to IEC 60947-5-1, q = 40 °C 16 A
Rated Operational (415 V) 55 °C 72. (24040 V) 55 °C 72. (24040 V) 55 °C 72. (24040 V) 55 °C 76. (500 V) 55 °C 66. (500 V) 55 °C 66. (1000 V) 55 °C 66. (1000 V) 55 °C 66. (1000 V) 55 °C 75. (220 / 230 / 240 V) 25 °C 75. (220 / 230 / 240 V) 25 °C 75. (220 / 230 / 240 V) 25 °C 75. (220 / 230 / 240 V) 25 °C 75. (220 / 230 / 240 V) 25 °C 75. (220 / 230 / 240 V) 25 °C 75. (220 / 230 / 240 V) 25 °C 75. (220 / 230 / 240 V) 25 °C 75. (220 / 230 / 240 V) 25 °C 75. (220 / 230 / 240 V) 25 °C 75. (220 / 230 / 240 V) 25 °C 75. (220 / 230 / 240 V) 25 °C 75. (220 / 230 / 240 V) 25 °C 75. (220 / 230 / 240 V) 25 °C 75. (220 / 230 / 240 V) 25 °C 75. (220 / 230 / 240 V) 25 °C 75. (220 / 230 / 240 V) 25 °C 75. (220 / 230 / 240 V) 25 °C 75. (220 / 230 / 240 V) 25 °C 75. (220 V) 25 °C 75. (22	Rated Operational Current AC-1 (I _e)	(690 V) 40 °C 125 (690 V) 55 °C 105 (690 V) 70 °C 85
(220 / 230 / 240 V) 55 °C.7 Rated Operational Power AC-3 (Pe) (415 V) 40 kW (500 V) 40 kW (500 V) 40 kW (690 V) 40 kW (890 V) 40 kW (220 / 230 / 240 V) 22 kW Rated Breaking Capacity Rated Breaking Capacity 8 x le AC- AC-3 acc. to IEC 60947-4- 1 Rated Making Capacity AC-3 acc. to IEC 60947-4- 1 Rated Operational Current AC-15 (I _e) (690 V) 2. (24 / 127 V) 6. (220 / 240 V) 4. (220 / 240 V) 9. (24 / 127 V) 6. (220 / 240 V) 9. (24 / 127 V) 6. (220 / 240 V) 9. (24 / 127 V) 6. (250 / 127 V) 6. (2	Rated Operational Current AC-3 (I _e)	(415 V) 55 °C 72 ⁄ (440 V) 55 °C 70 ⁄ (500 V) 55 °C 65 ⁄ (690 V) 55 °C 46 ⁄ (1000 V) 55 °C 28 ⁄
Rated Breaking Capacity AC-3 acc. to IEC 60947-4- Rated Making Capacity Rated Operational Current AC-15 (I _e) Rated Operational Rated Operational Current DC-13 (I _e) Rated Operational Current DC-13 (I _e) Rated Insulation Voltage	Rated Operational Power AC-3 (P _e)	(220 / 230 / 240 V) 55 °C 75 (415 V) 40 kV (440 V) 40 kV (500 V) 45 kV
AC-3 acc. to IEC 60947-4-1 Rated Making Capacity Rated Operational Current AC-15 (I _e) Rated Operational Current AC-15 (I _e) Rated Operational Current AC-15 (I _e) Short-Circuit Protective Devices Auxiliary Circuit - gG Type Fuses 10. Baximum Breaking Cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 1300. Capacity Cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 630. Maximum Blectrical Switching Frequency (AC-2 / AC-4) 150 cycles per hou (AC-3) 300 cycles per hou (AC-3) 400 cycles per hou (AC-3) 300 cycles p		(380 / 400 V) 37 kW (220 / 230 / 240 V) 22 kW
AC-3 acc. to IEC 60947-4-1 Rated Operational (500 V) 2. Current AC-15 (I _e) (699 V) 2. (24 / 127 V) 6. (220 / 240 V) 4. (380 / 400 V) 3. Short-Circuit Protective Auxiliary Circuit - gG Type Fuses 10. Devices gG Type Fuses 160. Maximum Breaking cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 1300. Capacity cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 630. Maximum Electrical (AC-1) 300 cycles per hou with the sum of	Rated Breaking Capacity AC-3 acc. to IEC 60947-4- 1	8 x le AC-3
Current AC-15 (Ie) (690 V) 2 (24 / 127 V) 6 (220 / 240 V) 4 (380 / 400 V) 3 (Rated Making Capacity AC-3 acc. to IEC 60947-4- 1	10 x le AC-3
Devices ### GR Type Fuses 160 A ### Maximum Breaking ### Cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 1300 A ### Cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 630 A ### Maximum Electrical ### Maximum Electrical ### Maximum Electrical ### Maximum Electrical ### (AC-1) 300 cycles per hou ### (AC-2 / AC-4) 150 cycles per hou ### (AC-3) 300 cycles per hou ### (AC-1) 150 cycles p	Rated Operational Current AC-15 (I _e)	(500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (380 / 400 V) 3 A
Capacity cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 630 A Maximum Electrical (AC-1) 300 cycles per hou Switching Frequency (AC-2 / AC-4) 150 cycles per hou (AC-3) 300 cycles per hou (AC-3) 300 cycles per hou (AC-3) 300 cycles per hou (AC-3) 444 (48 V) 2.8 / 144 (Current DC-13 (le) (48 V) 2.8 / 134 (72 V) 1 / 72 (125 V) 0.55 / 69 (250 V) 0.3 / 75 Rated Insulation Voltage acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V (Ui) acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V	Short-Circuit Protective Devices	Auxiliary Circuit - gG Type Fuses 10 A gG Type Fuses 160 A
Switching Frequency (AC-2 / AC-4) 150 cycles per hou (AC-3) 300 cycles	=	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 1300 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 630 A
Current DC-13 (I _e)		(AC-1) 300 cycles per hou (AC-2 / AC-4) 150 cycles per hou (AC-3) 300 cycles per hou
Rated Insulation Voltage acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 600 acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 600 acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 600 acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 600 acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 600 acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 600 acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 600 acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 600 acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 600 acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 600 acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 600 acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 600 acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 600 acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 600 acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 600 acc.		(24 V) 6 / 144 A (48 V) 2.8 / 134 A (72 V) 1 / 72 A (125 V) 0.55 / 69 A (250 V) 0.3 / 75 A
	=	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 \ acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 \ acc. to UL/CSA 600 \

Rated Impulse Withstand Voltage (U_{imp}

8 kV

Mechanical Durability	5 million
Maximum Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit Voltage (Uc)	DC Operation 110 V
Coil Consumption	Average Holding Value, from Warm State 4 W Average Pull-in Value, from Cold State 200 W Pull-in at Max. Rated Control Circuit Voltage DC 200 W
Operate Time	Between Coil De-energization and NC Contact Closing 8 18 ms Between Coil De-energization and NO Contact Opening 5 15 ms Between Coil Energization and NC Contact Opening 10 27 ms Between Coil Energization and NO Contact Closing 30 30 ms
Connecting Capacity Main Circuit	Flexible with Cable End 6 16 mm² Rigid Cable 6 25 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Cable End 0.75 2.5 mm² Rigid Cable 1 4 mm²
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10
Connecting Terminals (delivered in open position) Main Poles	M 6 (+,-) pozidriv 2 screws with 1x (13 x 10 mm) connector
Terminal Type	Screw Terminals

Technical UL/CSA

General Use Rating	(600 V AC) 105 A
UL/CSA	

Environmental	
Ambient Air Temperature	Close to Contactor Fitted with Thermal O/L Relay -25 55 °C Close to Contactor without Thermal O/L Relay (0.85 1.1 Uc) -40 55 °C Close to Contactor without Thermal O/L Relay (Uc) -40 70 °C Close to Contactor for Storage -60 +80 °C
Climatic Withstand	acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II
Maximum Operating Altitude Permissible	Without Derating 3000 m
RoHS Status	Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)	
ASEFA Certificate	ASEFA_03101
CB Certificate	CB_CN45323
CCC Certificate	CCC_2018010304129269
CQC Certificate	CQC2018010304129269
CSA Certificate	CSA_1033838_LR056745
Declaration of Conformity - CCC	2020980304001621
Declaration of Conformity - CE	1SBD250804U1000
Environmental Information	1SBD250019E1003
GOST Certificate	GOST_POCCFRME77B07175
Instructions and Manuals	FPTC407700P0003
LOVAG Certificate	LOVAG_FR04001
RMRS Certificate	RMRS_0507015250
RoHS Information	1SBD250804U1000
UL Certificate	UL_20120830-E312527-10-1

AE75-30-11 110V DC 4

UL Listing Card UL_E312527

Container Information	
Package Level 1 Units	1 piece
Package Level 1 Width	140 mm
Package Level 1 Depth / Length	146 mm
Package Level 1 Height	96 mm
Package Level 1 Gross Weight	1.24 kg
Package Level 1 EAN	3471522109866
Package Level 2 Units	box 20 piece
Package Level 2 Width	503 mm
Package Level 2 Depth / Length	153 mm
Package Level 2 Height	307 mm
Package Level 2 Gross Weight	24.8 kg
Package Level 3 Units	160 piece

Classifications	
Object Classification Code	Q
ETIM 4	EC000066 - Magnet contactor, AC-switching
ETIM 5	EC000066 - Magnet contactor, AC-switching
ETIM 6	EC000066 - Power contactor, AC switching
ETIM 7	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529

Categories

 $\textbf{Low Voltage Products and Systems} \rightarrow \textbf{Control Products} \rightarrow \textbf{Contactors} \rightarrow \textbf{Block Contactors}$

